

Preliminary Program

(released on Aug. 29, 2008)

Program Overview

Registration:	September 24-27, 2008 8:00-19:00 hrs Reception Hall, Lakeview Hotel, Haidian District, Beijing, China
Social Events:	
Welcome Reception	September 25, 2008 18:00-20:00 hrs Conference Grand Hall, Lakeview Hotel
VIP Dinner	September 26, 2008 18:00-20:00 hrs TBA
Banquet	September 27, 2008 18:00-21:00 hrs Conference Grand Hall, Lakeview Hotel
Technical Programs	
Plenary Talks	September 25, 2008 8:30-12:00 hrs Conference Grand Hall, Lakeview Hotel
Panel Session	September 25, 2008 14:00-16:00 hrs Conference Room A, Lakeview Hotel
Parallel Oral Sessions	September 25, 2008. 14:00-18:00 Conference Room B-E. September 26-27, 2008. 8:00-12:00, 14:00-18:00 Conference Room A-E.
Poster Session	September 26, 2008. 16:00-18:00 Corridor of the Conference Hall, Lakeview Hotel
Tea/Coffee Breaks	September 25-27, 2008 10:00-10:30, 16:00-16:30 Conference Grand Hall, Lakeview Hotel

Registration

Dates/Time: September 24-27, 2008/ 8:00-19:00 hrs

Place: Hotel Reception Hall, Lakeview Hotel, Haidian District, Beijing, China

8:00-12:00 hrs, September 25, 2008 (Thursday)

Opening Ceremony

Chair: Fuchun Sun

Time: 8:00-8:30 hrs

Venue: Grand Conference Hall

Plenary Talk I (Lecture 45 min, Q&A 5 min) (F1H)

Chair: Ying Tan

Time: 8:30-9:15 hrs

Venue : Grand Conference Hall

Plenary Talk II(Lecture 45 min, Q&A 5 min) (F1H)

Chair: Jianwei Zhang

Time: 9:15-10:00 hrs

Venue : Grand Conference Hall

Tea/Coffee Break (F2H)

Time: 10:00-10:30 hrs

Venue : Grand Conference Hall

Plenary Talk III (Lecture 45 min, Q&A 5 min) (F1H)

Chair: Wen Yu

Time: 10:30-11:15 hrs

Venue : Grand Conference Hall

Plenary Talk IV(Lecture 45 min, Q&A 5 min) (F1H)

Chair: Jinde Cao

Time: 11:15-12:00 hrs

Venue : Grand Conference Hall

Plenary Talk I

Dynamic and Neuro-Dynamic Programming: An Overview and Recent Work

Dimitri P. Bertsekas

Massachusetts Institute of Technology

Cambridge, MA 02139, USA

Abstract

Dynamic programming is a broadly applicable methodology for sequential decision making, but suffers from exponential growth of computational requirements as the problem size increases. This has led to extensive work on approximations over the last twenty years. One key idea is to use an (approximate) scoring function to select decisions in complex dynamic systems, arising in a broad variety of applications from engineering design, operations research, resource allocation, finance, etc. This is much like what is done in computer chess and computer backgammon, where positions are evaluated by means of a scoring function and the move that leads to the position with the best score is chosen. Neuro-dynamic programming/reinforcement learning provides a class of systematic methods for computing appropriate scoring functions using neural network-like approximation schemes and simulation/evaluation of the system's performance. Another important idea is to use heuristics to compute on-line the values of an approximate scoring function, and is well-suited for large discrete optimization problems. The talk will overview these methodologies and discuss recent work.

Biography



Dimitri P. Bertsekas received a combined B.S.E.E. and B.S.M.E. from the National Technical University of Athens, Greece, an M.S.E.E. from George Washington University, and a Ph.D. in system science from the Massachusetts Institute of Technology. He has held faculty positions with the Engineering-Economic Systems Dept., Stanford University (1971-1974) and the Electrical Engineering Dept. of the University of Illinois, Urbana (1974-1979). Since 1979 he has been teaching at the Electrical Engineering and Computer Science Department of the Massachusetts Institute of Technology (M.I.T.), where he is currently McAfee Professor of Engineering. He consults regularly with private industry and has held editorial positions in several journals. His research at M.I.T. spans several fields, including optimization, control, large-scale computation, and data communication networks, and is closely tied to his teaching and book authoring activities. He has written numerous research papers, and thirteen books, several of which are used as textbooks in MIT classes. Dr. Bertsekas was awarded the INFORMS 1997 Prize for Research Excellence in the Interface Between Operations Research and Computer Science for his book "Neuro-Dynamic Programming" (co-authored

with John Tsitsiklis), the 2000 Greek National Award for Operations Research, and the 2001 ACC John R. Ragazzini Education Award. In 2001, he was elected to the United States National Academy of Engineering. Dr. Bertsekas' recent books are "Introduction to Probability" (2002), "Convex Analysis and Optimization" (2003), "Dynamic Programming and Optimal Control: 3rd Edition" (2007), all published by Athena Scientific. He is writing a new book on Convex Optimization Theory (to appear in 2008).

Plenary Talk II

The Challenges of Cognitive Interaction Technology

Helge Ritter

Faculty of Technology
Bielefeld University, UK.

Abstract

While the rapid advances in technology are bringing the complexity of technical systems closer to the level of biology, the interaction between humans and such systems raises new challenges, one of the foremost being how to facilitate the guidance and use of such systems and endow it with the ease we are accustomed from natural cooperation and communication between humans. We argue that the realization of that goal will require a basic understanding of how to synthesize the quality of cognitive interaction from more realizable constituents that cover substantial partial functions such as intelligent motion, attention, situated communication and memory with learning. We point out some exemplary research questions and report on ongoing research that led to the Bielefeld-based research initiative "CITEC - Cognitive Interaction Technology" launched recently in the context of the German Excellence Initiative, along with the closely associated "Cognition and Robotics Lab" (CoR-Lab), both bringing together an interdisciplinary consortium of computer scientists, biologists, linguists and psychologists aiming towards elucidating principles of cognitive interaction and their replication in technical systems.

Biography



Helge Ritter studied physics and mathematics at the Universities of Bayreuth, Heidelberg and Munich. After a Ph.D. in physics at Technical University of Munich in 1988 he visited the Laboratory of Computer Science at Helsinki University of Technology and the Beckman Institute for Advanced Science and Technology at the University of Illinois at Urbana-Champaign. Since 1990 he is head of the Neuroinformatics Group at the Faculty of Technology, Bielefeld University. His main interests are principles of neural computation and their application to build intelligent systems. In 1999, Helge Ritter was awarded the SEL Alcatel Research Prize and in 2001 the Leibniz Prize of the German Research Foundation DFG. He is co-founder and Director of the Bielefeld Cognitive Robotics Laboratory (CoR-Lab) and coordinator of the Bielefeld Excellence Cluster "Cognitive Interaction Technology" (CITEC).

Plenary Talk III

Approximate/Adaptive Dynamic Programming and Their Applications

Jennie Si

Arizona State University
Tempe, AZ 85287, USA

Abstract

Dynamic programming (DP) is an approach to computing the optimal control policy over time under nonlinearity and uncertainty by employing the principle of optimality introduced by Richard Bellman. Instead of enumerating all possible control sequences, dynamic programming only searches admissible state and/or action values that satisfy the principle of optimality. Therefore, the computation complexity can be much improved over the direct enumeration method. However, the computational efforts and the data storage requirement increase exponentially with the dimensionality of the system, which are reflected in the three curses: the state space, the observation space, and the action space. Thus, the traditional DP approach was limited to solving small size problems. This talk aims at exploring a class of approximate/adaptive dynamic programming algorithms that are especially useful in continuous state and continuous control problems. The talk will review these algorithms, their implementations and properties, as well as how to apply them to large, realistic engineering problems. The talk will also examine the feasibility of modeling the neural basis of decision making and control strategy development in behaving animals using these approximate/adaptive dynamic programming paradigms.

Biography



Jennie Si received her B.S. and M.S. degrees from Tsinghua University, Beijing, China, and her Ph.D. from the University of Notre Dame. She has been on the faculty in the Department of Electrical Engineering at Arizona State University since 1991. Her research focuses on dynamic optimization using learning and neural network approximation approaches. This entails fundamental understanding of learning and adaptive systems and development of learning algorithms. In addition, she is interested in applications of her systems knowledge in large physical systems such as semiconductor processes and biological neural systems. Recently she set up a neurophysiology lab using chronic multi-channel recording to study the neural mechanism of decision and control in rat's motor cortical areas. Jennie Si received the NSF/White House Presidential Faculty Fellow Award in 1995. She also received a Motorola Engineering Excellence Award in the same year. She is a Fellow of the IEEE. She is past Associate Editor of the *IEEE Trans. on Automatic Control*; past Associate Editor of the *IEEE Trans. on Semiconductor Manufacturing*, and current Associate Editor of the *IEEE Trans. on Neural Networks*.

Plenary Talk IV

Neural Computing in Web Search

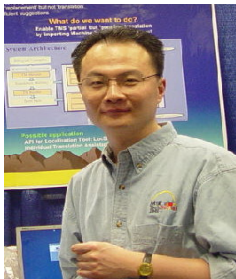
Hang Li

Microsoft Research Asia

Abstract

Search is becoming the major means for people to access the Internet. According to a survey, about 55% of internet users use search engines every day. Web search engines are usually built with technologies from two areas, large-scale distributed computing and statistical learning. Statistical learning is useful because there are many uncertainties in crawling, indexing, ranking, and serving of web search and the solutions to them have to be data-driven. In this talk, I will explain how statistical learning technologies are being used in web search. Specifically, I will introduce some of the neural computing technologies for web search, developed at Microsoft.

Biography



Hang Li is senior researcher and research manager at Microsoft Research Asia. He is also adjunct professor at Peking University, Nanjing University, Xian Jiaotong University, and Nankai University. His research areas include natural language processing, information retrieval, statistical machine learning, and data mining. He graduated from Kyoto University and earned his PhD from the University of Tokyo. Hang has over 60 publications in international journals and conferences. He is associate editor of ACM Transaction on Asian Language Information Processing and is in editorial board of Journal for Computer and Science Technology, Journal of Chinese Information Processing, etc. His recent academic activities include program committee co-chair of AIRS'08, poster and demo committee co-chair of SIGIR'08, program committee area chair of PAKDD'08, etc. Hang has been working on development of several products. These include NEC TopicScope, Microsoft SQL Server 2005, Microsoft Office 2007.

13:30-18:00 hrs, September 25, 2008 (Thursday)

Panel Session (Panelists with 6 persons, 15 min / person)

Time: 14:00- 15:30

Venue: Conference Room A

Tea/Coffee Break

Time: 15:30- 16:00

Special Session A

Time: 16:00- 17:40

Venue: Conference Room A

Thursday, September 25, 2008

Session	Neural Networks for Control (I)	Chair/ Co-Chair	pending
Date/Time	September 25/14:00-15:40	Venue	Room B
14:00-14:20	Novel Global Robust Stability Criteria for Interval Cohen-Grossberg Neural Networks with Time-Varying Delays <i>Xiaolin Li</i>		#76
14:20-14:40	Data Categorization for Missing Data Estimation Using Neural Networks: A Dynamic Programming-like Approach <i>Fulufhelo Nelwamondo, Dan Golding, and Tshilidzi Marwala</i>		#165
14:40-15:00	Stability Analysis of Generalized Neural Networks with Mixed Time-varying Delays <i>Yuanyuan Wu, Yuqiang Wu, and Yonggang Chen</i>		#173
15:00-15:20	Robust Stability Analysis for Uncertain Stochastic Neural Networks with Mixed Time-varying Delays <i>Yonggang Chen, and Tiheng Qin</i>		#244
15:20-15:40	Passivity Analysis of Neural Networks with Discrete and Distributed Delays <i>Jianxi Yang, Qiankun Song, and Jianting Zhou</i>		#313

Session	Neural Networks for Control (II)	Chair	pending
Date/Time	September 25/14:00-15:40	Venue	Room C
14:00-14:20	An Online RBF Network for Message Scheduling on Controller Area Network <i>Mu-Song Chen, Hao-wei Yen and Thanh Tuan Nguyen</i>		#383
14:20-14:40	An Analysis of Global Exponential Stability of Neural Networks with Reaction-diffusion Terms and Distributed Delays <i>Zhenjiang Zhao, Deqian Xue, and Qiankun Song</i>		#328
14:40-15:00	Neuro-PID Controller Design for Networked Control Systems with Nonlinearity and Random Delays Using Fisher Information <i>Jianhua Zhang and Hong Wang</i>		#433
15:00-15:20	Self-localization of Mobile Robot Based on Wireless Sensor Networks ZigBee and Laser Range finder <i>Hongbo Wang, Ke Yu and Xingbin Tian</i>		#545
15:20-15:40	Exponential Stability of High-Order Hopfield Type Neural Networks with Time Delays <i>Bjingji Xu, Guoqiang Yuan and Xiaoxin Liao</i>		#401

Session	Advances in Neural Computation and Its Applications (I)	Chair/ Co-Chair	pending
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Date/Time	September 25/14:00-15:40	Venue	Room D
14:00-14:20	Predictive Models for Emission of Hydrogen Powered Car Using Various Artificial Intelligent Tools <i>Vishy Karri and Tien Ho</i>		#302
14:20-14:40	An adaptive Neural Network Approach for Target Classification Using Multi-sensor Information Fusion <i>Ning Chen, Fuchun Sun, Linge Ding and Hongqiao Wang</i>		#334
14:40-15:00	Coffee Break		
15:00-15:20	Traffic Congestion Detect by Combining PCA with High-order Boltzmann Machine <i>Zhanquan Sun</i>		#348
15:20-15:40	Intelligent Methods for Solving Inverse Problems of Backscattering Spectra with Noise: A Comparison between Neural Networks and Simulated Annealing <i>Michael Li, William Guo, Brijesh Verma and Kevin Tickle</i>		#351

Session	Advances in Theory and Application of Neural Networks	Chair/ Co-Chair	pending
Date/Time	September 25/14:00-15:40	Venue	Room E
14:00-14:20	Financial Data Forecasting Based on Neural Network <i>Gao Wei</i>		#36
14:20-14:40	Adaptive Wind Speed Forecasting with a Pipelined Recurrent Neural Network <i>Liangyou Hong, Dongxiang Jiang, Qian Huang and Yongshan Ding</i>		#199
14:40-15:00	Supervised Classification of the Polarimetric SAR Data Based on the Projection Pursuit Wavelet Network <i>Lin Wei, Rui-Xia Wang and Shi-Ming Lin</i>		#240
15:00-15:20	Exponential Stability Analysis of Stochastic Delayed Cohen-grossberg Neural Networks <i>Guanjun Wang and Jinling Liang</i>		#145
15:20-15:40	Generalized Stability Criteria of Stochastic CNN with Generalized Activation Functions <i>Wudai Liao, Jianguo Xu and Zhongsheng Wang</i>		#28

Special Session	Applications of Neural Networks in Electronic Engineering	Chair/ Co-Chair	pending
Date/Time	September 25/16:00-17:40	Venue	Room A
16:00-16:20	An Estimating Traffic Scheme Based on Adaline <i>Fengjun Shang</i>		#66
16:20-16:40	A New BSS Method of Single-Channel Mixture Signal Based on ISBF and Wavelet <i>Xiefeng Cheng</i>		#262
16:40-17:00	Coffee Break		
17:00-17:20	SVM Model Based on Particle Swarm Optimization for Short-Term		#215

Load Forecasting

Yongli Wang, Dongxiao Niu and Weijun Wang

17:20-17:40 Sequential Modeling of a Low Noise Amplifier with Neural Networks and Active Learning #435

Dirk Gorissen, Tom Dhaene, Luciano De Tommasi and Karel Crombecq

Session	Advances in Neurocomputing (I)	Chair/ Co-Chair	pending
Date/Time	September 25/16:00-17:40	Venue	Room B
16:00-16:20	Energy Coding and Energy Functions <i>Rubin Wang and Zhikang Zhang</i>		#227
16:20-16:40	Transient Responses of Activity-Dependent Synapses to Modulated Pulse Trains <i>Christian Mayr, Johannes Partzsch and Rene Schüffny</i>		#124
16:40-17:00	Prediction of Credit Delinquents Using Transductive Multi-layer Perceptron <i>Hyunjin Heo, Hyejin Park, Namhyoung Kim and Jaewook Lee</i>		#136
17:00-17:20	Theoretical Analysis of Batch and On-line Training for Gradient Descent Learning in Neural Networks <i>Take Nakama.</i>		#21
17:20-17:40	Bagging and AdaBoost Algorithms for Vector Quantization <i>Noritaka Shigei, Hiromi Miyajima, Michiharu Maeda and Lixin Ma</i>		#314

Session	Advances in Neurocomputing (II)	Chair/ Co-Chair	pending
Date/Time	September 25/16:00-17:40	Venue	Room C
16:00-16:20	Invariant Pattern Recognition Using Analog Recurrent Associative Memories <i>Iulian Ciocoiu</i>		#317
16:20-16:40	Predicting the Topology of Dynamic Neural Networks for the Simulation of Electronic Circuits <i>Wil Schilders</i>		#529
16:40-17:00	A Novel Weight Initialization Method for the Random Neural Network <i>Stelios Timotheou</i>		#447
17:00-17:20	Robust Design of Bipolar Wave Cellular Neural Network with Applications <i>Jinzhu Liu and Lequan Min</i>		#399
17:20-17:40	Neural Network Based Iterative Learning Control for Product Qualities in Batch Processes <i>Zhihua Xiong, Yixin Xu, Jin Dong and Jie Zhang</i>		#425

Session	Neural Network Modeling and	Chair	pending
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Control			
Date/Time		Venue	Room D
16:00-16:20	Nonlinear Adaptive Neural Network Controller Design for Half-Car Active Suspension Systems <i>Hanwen Yuan and Cong Wang</i>		#203
16:20-16:40	Neural Network PID Adaptive Control for a Water Level System <i>Xiaoli Li, Longhui Shi and Ji Li</i>		#308
16:40-17:00	Robust Stabilizing Controller Synthesis for Discrete-time Recurrent Neural Networks Via State Feedback <i>Jianhai Zhang, Huaixiang Zhang, Guojun Dai, Senlin Zhang and Meiqin Liu</i>		#356
17:00-17:20	Neural Network-based Robust Control of Hypersonic Flight Vehicle <i>Yenan Hu, Fuchun Sun, and Huaping Liu</i>		#378
17:20-17:40	DSC Approach to Robust Adaptive NN Tracking Control for a Class of MIMO Systems <i>Tieshan Li</i>		#475

Session	Advances in Neural Computation and Its Applications (II)	Chair	pending
Date/Time	September 25/16:00-17:40	Venue	Room E
16:00-16:20	AI-SIMCOG: A Simulator for Spiking Neurons and Multiple Animat's Behaviours <i>Andre Cyr, Mounir Boukadoum and Pierre Poirier</i>		#480
16:20-16:40	Anti-Synchronization of Stochastic Perturbed Delayed Chaotic Neural Networks <i>Fengli Ren and Jinde Cao</i>		#504
16:40-17:00	Characterization of Particle Swarm Optimization with Diverisive Curiosity <i>Hong Zhang and Masumi Ishikawa</i>		#508
17:00-17:20	High-voltage Equipment Condition Monitoring and Diagnosis System Based on Information Fusion <i>Yong-Wei Li, Zhen-Yu Wang and Xing-De Han.</i>		#546
17:20-17:40	A Motion Location Based Video Watermarking Scheme Using ICA to Extract Dynamic Frames <i>Zhaowan Sun, Ju Liu, Jiande Sun, Xinghua Sun and Jie Ling.</i>		#184

Friday, September 26, 2008

Session	(Computational Neuroscience) Cognitive Computation (I)	Chair	pending
Date/Time	September 26/08:00-09:40	Venue	Room A
08:00-08:20	Single Trial Evoked Potentials Study During an Emotional Processing Based on Wavelet Transform <i>Ling Zou and Renlai Zhou</i>		#114
08:20-08:40	Robust Speaker Modeling Based on Constrained Nonnegative Tensor Factorization <i>Qiang Wu, Liqing Zhang and Guangchuan Shi</i>		#167
08:40-09:00	A Hypothesis on How the Neocortex Extracts Information for Prediction in Sequence Learning <i>Weiyu Wang</i>		#200
09:00-09:20	MENN Method Applications for Stock Market <i>Guangfeng Jia, Yuehui Chen and Peng Wu</i>		#201
09:20-09:40	New Chaos Produced from Synchronization of Chaotic Neural Networks <i>Zunshui Cheng</i>		#337

Session	Cognitive (Science) Computation (II)	Chair/ Co-Chair	pending
Date/Time	September 26/08:00-09:40	Venue	Room B
08:00-08:20	An Automatic Fuzzy C-Means Algorithm for Image Segmentation <i>Yanling Li and Yi Shen</i>		#179
08:20-08:40	Temporal Properties of Illusory-Surface Perception Probed with Poggendorff Configuration <i>Qin Wang and Marsanori Idesawa</i>		#126
08:40-09:00	A Detailed Study on the Modulation of Emotion Processing by Spatial Location <i>Baolin Liu, Shuai Xin, Zhixing Jin, Xiaorong Gao, Shangkai Gao, Renxin Chu, Beixing Deng and Yongfeng Huang</i>		#540
09:00-09:20	A Dual-Mode Learning Mechanism Combining Knowledge-education and Machine-learning <i>Yichang Chen and Anpin Chen</i>		#514
09:20-09:40	The Effect of Task Relevance on Electrophysiological Response to Emotional Stimuli <i>Baolin Liu, Shuai Xin, Zhixing Jin, Xiaorong Gao, Shangkai Gao, Renxin Chu, Yongfeng Huang and Beixing Deng</i>		#539

Session	Mathematical Modeling of Neural System (I)	Chair/Co-Chair	pending
Date/Time	September 26/08:00-09:40	Venue	Room C
08:00-08:20	Matlab Simulation and Comparison of Zhang Gradient Neural Network for Time-varying Lyapunov Equation Solving <i>Yunong Zhang, Shuai Yue, Ke Chen and Chenfu Yi</i>		#8
08:20-08:40	Improved Global Exponential Stability Criterion for BAM Neural Networks with Time-varying Delays <i>Yonggang Chen and Tiheng Qin</i>		#46
08:40-09:00	Global Exponential Stability and Periodicity of CNNs with Time-varying Discrete and Distributed Delays <i>Shengle Fang, Minghui Jiang and Wenfang Fu</i>		#54
09:00-09:20	Estimation of Value-at-risk for Exchange Risk Via Kernel Based Nonlinear Ensembled Multi Scale Model <i>Kaijian He, Chi Xie and Kin Keung Lai</i>		#69
09:20-09:40	Delay-dependent Global Asymptotic Stability in Neutral-type Delayed Neural Networks with Reaction-diffusion Terms <i>Jianlong Qiu, Yinlai Jin and Qingyu Zheng</i>		#79

Session	Mathematical Modeling of Neural System (II)	Chair/Co-Chair	pending
Date/Time	September 26/08:00-09:40	Venue	Room D
08:00-08:20	Data Fusion Based on Neural Networks and Particle Swarm Algorithm and Its Application in Sugar Boiling <i>Yanmei Meng, Sijie Yan, Zhihong Tang, Yuanlin Chen and Jingneng Liu</i>		#150
08:20-08:40	Asymptotic Law of Likelihood Ratio for Multilayer Perceptron Models <i>Joseph Rynkiewicz</i>		#174
08:40-09:00	An On-line Learning Radial Basis Function Network and Its Application <i>Nini Wang, Xiaodong Liu and Jianchuan Yin</i>		#258
09:00-09:20	A hybrid Model of Partial Least Squares and RBF Neural Networks for System Identification <i>Nini Wang, Xiaodong Liu and Jianchuan Yin</i>		#259
09:20-09:40	Nonlinear Complex Neural Circuits Analysis and Design by q-Value Weighted Bounded Operator <i>Hong Hu and Zhongzhi Shi</i>		#301

Session	Mathematical Modeling of Neural System (III)	Chair/Co-Chair	pending
Date/Time	September 26/08:00-09:40	Venue	Room E

08:00-08:20	A Sequential Learning Algorithm for RBF Networks with Application to Ship Inverse Control <i>Gexin Bi and Fang Dong</i>	#500
08:20-08:40	CG-M-FOCUSS and Its Application to Distributed Compressed Sensing <i>Zhaoshui He, Andrzej Cichocki, Rafal Zdunek and Jianting Cao</i>	#390
08:40-09:00	Dynamic of Cohen-Grossberg Neural Networks with Variable Coefficients and Time-Varying Delays <i>Haijun Jiang and Xuehui Mei</i>	#415
09:00-09:20	Permutation Free Encoding Technique for Evolving Neural Networks <i>Anupam Das and Md. Shohrab Hossain</i>	#443
09:20-09:40	Six-element Linguistic Truth-Valued Intuitionistic Reasoning in Decision Making <i>Li Zou, Wenjiang Li and Yang Xu</i>	#446

Session	Stability and Nonlinear Analysis	Chair	pending
Date/Time	September 26/10:00-11:40	Venue	Room A

10:00-10:20	A Feature Extraction Method Based on Wavelet Transform and NMFs <i>Suwen Zhang and Lingfa Zeng</i>	#534
10:20-10:40	Implementation of Neural Network Learning with Minimum L1-Norm Criteria in Fractional Order Non-Gaussian Impulsive Noise Environments <i>Daifeng Zha</i>	#13
10:40-11:00	Stability of Neural Networks with Parameters Disturbed by White Noises <i>Wuyi Zhang and Wudai Liao</i>	#143
11:00-11:20	Novel Coupled Map Lattice Model for Prediction of EEG Signal <i>Minfen Shen, Lanxin Lin and Guoliang Chang</i>	#355
11:20-11:40	Three Global Exponential Convergence Results of the GPNN for Solving Generalized Linear Variational Inequalities <i>Xiaolin Hu, Zhigang Zeng and Bo Zhang</i>	#198

Session	Probabilistic Methods	Chair/ Co-Chair	pending
Date/Time	September 26/10:00-11:40	Venue	Room B

10:00-10:20	A Probabilistic Method to Estimate Life Expectancy of Application Software <i>Shengzhong Yuan and Hong He</i>	#72
10:20-10:40	Particle Filter with Improved Proposal Distribution for Vehicle Tracking	#239

	<i>Huaping Liu</i>	
10:40-11:00	Cluster Selection Based on Coupling for Gaussian Mean Fields	#370
	<i>Yarui Chen and Shizhong Liao</i>	
11:00-11:20	Multiresolution Image Fusion Algorithm Based on Block Modeling and Probabilistic Model	#412
	<i>Chenglin Wen and Jingli Gao</i>	
11:20-11:40	An Evolutionary Approach for Vector Quantization Codebook Optimization	#428
	<i>Carlos Azevedo, Esdras Bispo JÃnior, Tiago Ferreira, Francisco Madeiro and Marcelo Alencar</i>	

Session	Supervised Learning	Chair/ Co-Chair	pending
Date/Time	September 26/10:00-11:40	Venue	Room C
10:00-10:20	A New Strategy for Predicting Eukaryotic Promoter Based on Feature Boosting		#17
	<i>Shuanhu Wu, Qingshang Zeng and Yibin Song</i>		
10:20-10:40	Discrimination of Reconstructed Milk in Raw Milk by Combining Near Infrared Spectroscopy with Biomimetic Pattern Recognition		#107
	<i>Ming Sun and Longsheng Fu</i>		
10:40-11:00	Fuzzy Hyperbolic Neural Network Model and Its Application in H-Infinity Filter Design		#382
	<i>Shuxian Lun, Zhaozheng Guo and Huaguang Zhang</i>		
11:00-11:20	The Turning Points on MLPs Error Surface		#282
	<i>Hung-han Chen</i>		
11:20-11:40	Parallel Fuzzy Reasoning Models with Ensemble Learning		#315
	<i>Hiromi Miyajima, Noritaka Shigei, Shinya Fukumoto and Toshiaki Miike</i>		

Session	Dynamics and Applications of Networks	Chair/ Co-Chair	pending
Date/Time	September 26/10:00-11:40	Venue	Room D
10:00-10:20	Stability of Genetic Regulatory Networks with Distributed Delay		#505
	<i>Wangli He and Jinde Cao</i>		
10:20-10:40	Dynamic Shift Mechanism of Continuous Attractors in a Class of Recurrent Neural Networks		#350
	<i>Haixian Zhang and Yi Zhang</i>		
10:40-11:00	Application of the Fuzzy ARTMAP Neural Network to Prediction of the Quality of Refined Bleached Deodorized Palm Oil		#298
	<i>Norhashimah morad, Kok Yeng Chen, Chee Peng Lim and Boon Peng Teh</i>		
11:00-11:20	A Gradient-Based Sequential Radial Basis Function Neural		#450

Network Modeling Method

Yao Wen, Xiaoqian Chen and Wencai Luo

11:20-11:40 Encoding Human Knowledge for Visual Pattern Recognition #448
Zheng Ji, Wen-Yun Yang, Si Wu and Bao-Liang Lu

Session	Neural Networks for Image Processing and Recognition	Chair/Co-Chair	pending
Date/Time	September 26/10:00-11:40	Venue	Room E
10:00-10:20	A Gabor Feature based Two-pass Classification Method for Face Recognition using BPR and SVM's <i>Chengan Guo, Rui Meng, and Taiyang Zhao</i>		#279
10:20-10:40	Image Compression with Perceptually Adaptive Epsilon-SVR in Wavelet domain <i>Arvind Tolambiya and Prem K. Kalra</i>		#61
10:40-11:00	Studies on Segmentation and Recognition Methods for Blood Cells Image <i>Zhenjie Hou and Wei Zhang</i>		#220
11:00-11:20	Image Classification on an Improved Synergetic Network <i>Xiuli Ma and Guoqiang Mu</i>		#237
11:20-11:40	A New Segmentation Approach in Structured Self-organizing Maps for Image Retrieval <i>raquel esperanza Patico Escarcina and Jose Alfredo Ferreira Costa</i>		#518

Session	Support Vector Machine(I)	Chair/Co-Chair	pending
Date/Time	September 26/14:00-15:40	Venue	Room A
14:00-14:20	A BYY Split-and-Merge EM Algorithm for Gaussian Mixture Learning <i>Lei Li and Jinwen Ma</i>		#406
14:20-14:40	A Comparative Study on Clustering Algorithms for Multispectral Remote Sensing Image Recognition <i>Lintao Wen, Xinyu Chen and Ping Guo</i>		#414
14:40-15:00	A Gradient BYY Harmony Learning Algorithm for Straight Line Detection <i>Gang Chen, Lei Li and Jinwen Ma</i>		#509
15:00-15:20	Simulations for American Option Pricing Under a Jump-Diffusion Model: Comparison Study Between Kernel-based and Regression-based Methods <i>Hyun-Joo Lee, Seung-Ho Yang, Gyu-Sik Han and Jaewook Lee</i>		#102
15:20-15:40	Imbalanced SVM Learning with Margin Compensation <i>Chanyun Yang, Jianjun Wang, Jr-Syu Yang and Guoding Yu</i>		#43

Session	Support Vector Machine(II)	Chair	pending
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Date/Time	September 26/14:00-15:40	Venue	Room B
14:00-14:20	Inverse System Identification of Nonlinear Systems Using LSSVM Based on Clustering		#202
	<i>Changyin Sun, Chaoxu Mu and Hua Liang</i>		
14:20-14:40	A New Approach to Division of Attribute Space for SVR Based Classification Rule Extraction		#228
	<i>Dexian Zhang</i>		
14:40-15:00	Chattering-Free LS-SVM Sliding Mode Control		#242
	<i>Jianning Li, Yibo Zhang and Haipeng Pan</i>		
15:00-15:20	A Generic Diffusion Kernel for Semi-supervised Learning		#349
	<i>Lei Jia and Shizhong Liao</i>		
15:20-15:40	Weighted Hyper-sphere SVM for Hypertext Classification		#376
	<i>Shuang Liu and Guoyou Shi</i>		

Session	Swarm Intelligen(t)ce	Chair/ Co-Chair	pending
Date/Time	September 26/14:00-15:40	Venue	Room C
14:00-14:20	Particle Swarm Optimization for Two-Stage FLA Problem with Fuzzy Random Demands		#33
	<i>Yankui Liu, Siyuan Shen and Rui Qin</i>		
14:20-14:40	An Improvement to Ant Colony Optimization Heuristic		#132
	<i>Youmei Li, Zongben Xu and Feilong Cao</i>		
14:40-15:00	ADHDP for the pH Value Control in the Clarifying Process of Sugar Cane Juice		#96
	<i>Xiaofeng Lin, Shengyong Lei, Chunning Song, Shaojian Song and Derong Liu</i>		
15:00-15:20	Dynamic PSO-Neural Network: A Case Study for Urban Microcosmic Mobile Emission		#101
	<i>Chaozhong Wu and Chengwei Xu</i>		
15:20-15:40	A PSO-based Method for Min-e Approximation of Closed Contour Curves		#510
	<i>Bin Wang, Chaojian Shi and Jing Li</i>		

Session	Prediction, Control and Diagnosis Using Advanced Neural Computations(II)	Chair/ Co-Chair	pending
Date/Time	September 26/14:00-15:40	Venue	Room D
14:00-14:20	BP Network Disaster Forecast Model Based-on Knowledge Base		#371
	<i>Aziguli Wulamu, Zheng, Zhang and Hongxia, Liu</i>		
14:20-14:40	Biomimetic Robotic Fish Motion Modeling and its NN-based Yaw Controller		#544
	<i>Chao Zhou, Zeng-Guang Hou, Zhiqiang Cao, Shuo Wang, and Min Tan</i>		

14:40-15:00	Coffee Break		
15:00-15:20	A Mutation Discrete Hopfield Neural Network for the Max Cut Problem <i>Laihong Hu, Fuchun Sun, Hualong Xu, Huaping Liu and Jin Yang</i>	#513	
15:20-15:40	Boiler Combustion Control Using Dual Heuristic Dynamic Programming <i>Xiaofeng Lin, Liang Yu, Shaojian Song, and Derong Liu</i>	#98	

Session	NN for Pattern Recognition and Intelligent Computation	Chair/ Co-Chair	pending
Date/Time	September 26/14:00-15:40	Venue	Room E
14:00-14:20	Classification by ALH-Fast Algorithm <i>Tao Yang and Vojislav Kecman</i>		#52
14:20-14:40	k-Top Scoring Pair Algorithm for Feature Selection in SVM with Applications to Microarray Data Classification <i>Sejong Yoon and Saejoon Kim</i>		#255
14:40-15:00	A Novel Application of a Self-Organizing Network for Recognition of Facial Expressions from Contours <i>Wen Fei Gu, Y. V. Venkatesh, and Cheng Xiang</i>		#50
15:00-15:20	Content Based Image Classification with Wavelet Relevance Vector Machines <i>Arvind Tolambiya, Venkataraman Santhanam, and Prem K. Kalra</i>		#187
15:20-15:40	Approximating Nonlinear Relations between Magnetic Contents and Susceptibility in Rocks Using Neural Networks <i>William Guo, Michael Li, and Zhengxiang Li</i>		#291

Session	Informatic-theoretic Methods	Chair	pending
Date/Time	September 26/16:00-17:40	Venue	Room A
16:00-16:20	Kernel-based Text Classification on Statistical Manifold <i>Shibin Zhou, Shidong Feng and Yushu Liu</i>		#493
16:20-16:40	A Boost Voting Strategy for Knowledge Integration and Decision Making <i>Haibo He, Yuan Cao, Jinyu Wen and Shijie Cheng</i>		#554
16:40-17:00	Classification and Dimension Reduction in Bank Credit Scoring System <i>Bohan Liu, Bo Yuan and Wenhuan Liu</i>		#323
17:00-17:20	Polynomial Nonlinear Integrals <i>Jinfeng Wang, Kwong-Sak Leung, Kin-Hong Lee and Zhengyuan Wang</i>		#361
17:20-17:40	Testing Error Estimates for Regularization and Radial Function Networks <i>Petra Vidnerova and Roman Neruda</i>		#524

Session	Competitive Networks	Chair/ Co-Chair	pending
Date/Time	September 26/16:00-17:40	Venue	Room B
16:00-16:20	Structure Automatic Change in Neural Network <i>Junfei Qiao, Honggui Han and Xinyuan Li</i>		#548
16:20-16:40	A Two Stage Energy Model Exhibiting Selectivity to Changing Disparity <i>Xiaojiang Guo and Bertram Emil Shi</i>		#402
16:40-17:00	Condition Prediction of Hydroelectric Generating Unit Based on Immune Optimized RBFNN <i>Zhong Liu, Shuyun Zou, Shuangquan Liu, Fenghua Jin and Xuxiang Lu</i>		#470
17:00-17:20	Robust Model Predictive Control Using a Discrete-Time Recurrent Neural Network <i>Yunpeng Pan and Jun Wang</i>		#499
17:20-17:40	A Hybrid MCDM Method for Route Selection of Multimodal Transportation Network <i>Lili Qu and Yan Chen</i>		#161

Special Session	Pattern Recognition and Information Processing Using Neural Networks	Chair/ Co-Chair	pending
Date/Time	September 26/16:00-17:40	Venue	Room C
16:00-16:20	Neural Network Research Progress and Applications in Forecast <i>Shifei Ding, Weikuan Jia, Chunyang Su, Liwen Zhang and Zhongzhi Shi</i>		#303
16:20-16:40	Speech Emotion Recognition System Based on BP Neural Network <i>Guobao Zhang, Qinghua Song and Shumin Fei</i>		#461
16:40-17:00	Fault Monitoring and Diagnosis of Induction Machines Based on Harmonic Wavelet Transform and Wavelet Neural Network <i>Qianjin Guo and Haibin Yu</i>		#490
17:00-17:20	Coal and Gas Outburst Prediction Combining a Neural Network with the Dempster-Shafter Evidence <i>Yanzi Miao, Jianwei Zhang, Houxiang Zhang and Xiaoping Ma</i>		#552
17:20-17:40	Using the Tandem Approach for AF Classification in an AVSR System <i>Tian Gan, Wolfgang Menzel and Jianwei Zhang</i>		#553

Special Session	Cellular Neural Networks and Advanced Control with Neural Networks	Chair/ Co-Chair	pending
Date/Time	September 26/16:00-17:40	Venue	Room D
16:00-16:20	Robust Designs for Directed Edge Overstriking CNNs with Applications <i>Yongmei Su, Lequan Min and Xinjian Zhuo</i>		#331

- 16:20-16:40 Application of Local Activity Theory of Cellular Neural Network to the Chen's System #395
Danling Wang, Lequan Min and Yu Ji
- 16:40-17:00 Robust Stability of Switched Recurrent Neural Networks with Discrete and Distributed Delays under Uncertainty #515
Shiping Wen, Zhigang Zeng and Lingfa Zeng
- 17:00-17:20 Neuro-identifier-based Tracking Control of Uncertain Chaotic System #456
Wen Tan, Fuchun Sun and Yaonan Wang
- 17:20-17:40 **Application of PID Controller Based on BP Neural Network Using Automatic Differentiation Method** #449
Weiwei Yang, Yong Zhao, Li Yan and Xiaoqian Chen

Session	Prediction, Control and Diagnosis Using Advanced Neural Computations (I)	Chair	pending
Date/Time	September 26/16:00-17:40	Venue	Room E
16:00-16:20	An Evolutionary Morphological-Rank-Linear Forecasting Method for Stock Market Prediction <i>Ricardo de Andrade Araújo</i>	#30	
16:20-16:40	Recent-Biased Learning for Time Series Forecast <i>Suicheng Gu, Ying Tan, and Xingui He</i>	#347	
16:40-17:00	Coffee Break		
17:00-17:20	Moreno-Armendariz. Stable Adaptive Control with Hierarchical Fuzzy CMAC <i>Floriberto Ortiz Rodriguez, Wen Yu and Marco A.</i>	#340	
17:20-17:40	Computer Aided Diagnosis of Alzheimer Type Dementia Combining Support Vector Machines and Differential Mean Intensity Features <i>Javier Ramirez, Juan Manuel Gorriz, Antonio Romero, Andreas Lassl, Diego Salas-Gonzalez, Miriam López, Manuel Gomez-Rio and Antonio Rodriguez.</i>	#270	

Sunday, September 27, 2008

Session	Machine Learning and Data Mining (I)	Chair/ Co-Chair	pending
Date/Time	September 27/08:00-09:40	Venue	Room A
08:00-08:20	Rough Set Combine BP Neural Network in Next Day Load Curve Forecasting <i>Chunxiang Li, Dongxiao Niu and Limin Meng</i>		#14
08:20-08:40	Improved Algorithm for Image Processing in TCON of TFT-LCD <i>Ran Feng, Lianzhou Wang and Meihua Xu</i>		#285
08:40-09:00	An Algorithm of Constrained Spatial Association Rules Based on Binary <i>Gang Fang, Zukuan Wei and Qian Yin</i>		#119
09:00-09:20	Sequential Proximity-based Clustering for Telecommunication Network Alarm Correlation <i>Yan Liu, Jing Zhang, Xin Meng and John Strassner</i>		#135
09:20-09:40	A Fast Parallel Association Rules Mining Algorithm Based on FP-Forest <i>Jian Hu and Xiangyang Li</i>		#277

Session	Machine Learning and Data Mining (II)	Chair/ Co-Chair	pending
Date/Time	September 27/08:00-09:40	Venue	Room B
08:00-08:20	Clustering Using Normalized Path-based Metric <i>Jundi Ding, Runing Ma, Songcan Chen and Jingyu Yang</i>		#305
08:20-08:40	Association Rule Mining Based on the Semantic Categories of Tourism Information <i>Yipeng Zhou, Junping Du, Guangping Zeng and Xuyan Tu</i>		#318
08:40-09:00	The Quality Monitoring Technology in the Process of the Pulping Papermaking Alkaline Steam Boiling Based on Neural Network <i>Jianjun Su, Yanmei Meng, Chaolin Chen, Funing Lu and Sijie Yan</i>		#341
09:00-09:20	A New Self-adjusting Immune Genetic Algorithm <i>Shaojie Qiao, Changjie Tang, Shucheng Dai, Mingfang Zhu and Binglun Zheng</i>		#441
09:20-09:40	Calculation of Latent Semantic Weight Based on Fuzzy Membership <i>Jingtao Sun, Zhanting Yuan, Zhanting Yuan, Wenhan Huang, Xiaowen Yan and Jianshe Dong</i>		#474

Session	Pattern Recognition (I)	Chair	pending
Date/Time	September 27/08:00-09:40	Venue	Room C
08:00-08:20	Research on Spatial Clustering Acetabuliform Model and Algorithm		#551

Based on Mathematical Morphology

Lichao Chen, Lihu Pan and Yingjun Zhang

08:20-08:40 Dynamical Pattern Classification of Lorenz System and Chen #374
System

Hao Cheng and Cong Wang

08:40-09:00 Research of Spam Filtering System Based on LSA and SHA #473
Jingtao Sun, Qiuyu Zhang, Zhanting Yuan, Wenhan Huang, Xiaowen Yan and Jianshe Dong

09:00-09:20 Estimation of Nitrogen Removal Effect in Groundwater Using #182
Artificial Neural Network

Jinlong Zuo

09:20-09:40 A Sparse Sampling Method for Classification Based on Likelihood #131
Factor

Linge Ding, Fuchun Sun, Hongqiao Wang and Ning Chen

Session	Pattern Recognition (II)	Chair/ Co-Chair	pending
Date/Time	September 27/08:00-09:40	Venue	Room D

08:00-08:20 Application of Wavelet Neural Networks on Vibration Fault #268
Diagnosis for Wind Turbine Gearbox

Qian Huang, Dongxiang Jiang, Liangyou Hong and Yongshan Ding

08:20-08:40 Evolving Neural Network Using Genetic Simulated Annealing #208
Algorithms for Multi-spectral Image Classification

Xiaoyang Fu and Chen Guo

08:40-09:00 Detecting Moving Targets in Ground Clutter Using RBF Neural #249
Network

Jian Lao

09:00-09:20 Spatial Clustering with Obstacles Constraints by Hybrid Particle #235
Swarm Optimization with GA Mutation

Xueping Zhang

09:20-09:40 Fast Adaptive Graph-based Segmentation and SVM applied in #352
Vehicle License Plate Detection

Hao Wooi Lim and Yong Haur Tay.

Session	Fault Diagnosis	Chair/ Co-Chair	pending
Date/Time	September 27/08:00-09:40	Venue	Room E

08:00-08:20 Faulty Insulators On-line Diagnosis Based on Improved ART2 #57
Neural Network

Hailong Zhang, Weimin Guan and Genzhi Guan

08:20-08:40 Diagnosis Method for Gear Equipment by Sequential Fuzzy Neural #146
Network

Xiong Zhou, Huaqing Wang and Peng Chen

08:40-09:00 Coffee Break

- 09:00-09:20 Synthetic Fault Diagnosis Method of Power Transformer Based on Rough Set Theory and Bayesian Network #393
Yongqiang Wang, Fangcheng Lu and Heming Li
- 09:20-09:40 Fuzzy Information Fusion Algorithm of Fault Diagnosis Based on Similarity Measure of Evidence #491
Chenglin Wen, Yingchang Wang and Xiaobin Xu

Session	Intelligent Control and Robotics (I)	Chair	pending
Date/Time	September 27/10:00-11:40	Venue	Room A
10:00-10:20	BYY Harmony Learning on Weibull Mixture with Automated Model Selection <i>Zhijie Ren and Jinwen Ma</i>		#404
10:20-10:40	A Nonlinear Hierarchical Multiple Models Neural Network Decoupling Controller <i>Xin Wang, Hui Yang, Shaoyuan Li, Wenxin Liu, Li Liu and David A Cartes</i>		#118
10:40-11:00	Coffee Break		
11:00-11:20	Adaptive Dynamic Programming for a Class of Nonlinear Control Systems with General Separable Performance Index <i>Qinglai Wei, Derong Liu and Huaguang Zhang</i>		#137
11:20-11:40	Active Noise Control Using a Feedforward Network with Online Sequential Extreme Learning Machine <i>Qizhi Zhang and Yali Zhou</i>		#366

Session	Intelligent Control and Robotics (II)	Chair/ Co-Chair	pending
Date/Time	September 27/10:00-11:40	Venue	Room B
10:00-10:20	Adaptive Synchronization of Delayed Chaotic Systems <i>Lidan Wang and Shukai Duan</i>		#381
10:20-10:40	The Application of Full Adaptive RBF NN to SMC Design of Missile Autopilot <i>Jinyong Yu, Chuanjin Cheng and Shixing Wang</i>		#218
10:40-11:00	Multi-objective Optimal Trajectory Planning of Space Robot Using Particle Swarm Optimization <i>Panfeng Huang, Gang Liu, Jianping Yuan and Yangsheng Xu</i>		#325
11:00-11:20	The Direct Neural Control Applied to the Position Control in Hydraulic Servo System <i>Yuan Kang, Yiwei Chen, Ming-Huei Chu and Yeon-Pun Chang</i>		#345
11:20-11:40	An Application of Wavelet Networks in the Carrying Robot Walking <i>Xiuxia Yang, Yi Zhang, Changjun Xia, Zhiyong Yang and Wenjin Gu</i>		#354

Session	Intelligent Control and Robotics (III)	Chair/ Co-Chair	pending
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Date/Time	September 27/10:00-11:40	Venue	Room C
10:00-10:20	TOPN Based Temporal Performance Evaluation Method of Neural Network Based Robot Controller <i>Hua Xu and Peifa Jia</i>		#419
10:20-10:40	A Fuzzy Timed Object-Oriented Petri Net <i>Hua Xu and Peifa Jia</i>		#420
10:40-11:00	Fuzzy Reasoning Approach for Conceptual Design <i>Hailin Feng, Chenxi Shao and Yi Xu</i>		#488
11:00-11:20	Extension Robust Control of a Three-Level Converter for High-Speed Railway Tractions <i>Kuei-Hsiang Chao</i>		#496
11:20-11:40	Lossless Compression of Bayer Images Using Neural Network Predictive Coder <i>Jian Gang Zhao, WenAi Zhang, Ying Shang and Deng-Chao Feng.</i>		#391

Session	Audio, Image Processing and Computer Vision (I)	Chair/ Co-Chair	pending
Date/Time	September 27/10:00-11:40	Venue	Room D
10:00-10:20	Voice Translator Based on Associative Memories <i>Roberto Antonio Vazquez and Humberto Sossa Azuela</i>		#511
10:20-10:40	Denoising Natural Images Using Sparse Coding Algorithm Based on the Kurtosis Measurement <i>Li Shang</i>		#39
10:40-11:00	A New Denoising Approach for Sound Signals Based on Non-negative Sparse Coding of Power Spectra <i>Li Shang</i>		#41
11:00-11:20	Building Extraction Using Fast Graph Search <i>Dong-Min Woo, Quoc-Dat Nguyen, Dong-Chul Park and Seung-Soo Han</i>		#78
11:20-11:40	Image Denoising Using Three Scales of Wavelet Coefficients <i>Guangyi Chen and Weiping Zhu</i>		#169

Session	Audio, Image Processing and Computer Vision (II)	Chair/ Co-Chair	pending
Date/Time	September 27/10:00-11:40	Venue	Room E
10:00-10:20	A Selective Attention Computational Model for Perceiving Textures <i>Woobeom Lee</i>		#407
10:20-10:40	Classifications of Liver Diseases from Medical Digital Images <i>Lequan Min and Yongan Ye</i>		#410
10:40-11:00	A Global Contour-grouping Algorithm Based on Spectral Clustering <i>Hui Yin, Siwei Luo and Yaping Huang</i>		#429
11:00-11:20	Emotion Recognition in Chinese Natural Speech by Combining Prosody and Voice Quality Features <i>Shiqing Zhang</i>		#468

11:20-11:40 Optimization of Silicon Solar Cell Fabrication Based on Neural Network and Genetic Programming Modeling #311
Hyeon Bae, Tae-Ryong Jeon, Sungshin Kim, Hyun-Soo Kim, DongSeop Kim, Seung-Soo Han and Gary May

Session	Audio, Image Processing and Computer Vision (III)	Chair/Co-Chair	pending
Date/Time	September 27/14:00-15:40	Venue	Room A

14:00-14:20 Image Denoising Using Neighbouring Contourlet Coefficients #170
Guangyi Chen and Weiping Zhu

14:20-14:40 Robust Watermark Algorithm Based on the Wavelet Moment Modulation and Neural Network Detection #229
Dianhong Wang, Dongming Li and Jun Yan

14:40-15:00 Manifold Training Technique to Reconstruct High Dynamic Range Image #289
Cheng-Yuan Liou and Wei-Chen Cheng

15:00-15:20 Face Hallucination Based on CSGT and PCA #294
Xiaoling Wang, Ju Liu, Jianping Qiao, Jinyu Chu and Yujun Li

15:20-15:40 Complex Effects Simulation Based Large Particles System on GPU #322
Xingquan Cai, Jinhong Li and Zhitong Su

Session	Other Applications and Implementations (I)	Chair	pending
Date/Time	September 27/14:00-15:40	Venue	Room B

14:00-14:20 Entropy-Based Optimal Mother Wavelet Selection for Digital Damage Fingerprints (DDF) #217
Fucai Li, Kazuro Kageyama, Meng Guang, Lin Ye and Hideaki Murayama

14:20-14:40 A Fuzzy Neural-Network-Driven Weighting System for Electric Shovel #59
Yingkui Gu and Luheng Wu

14:40-15:00 Neural-Network-Based Maintenance Decision Model for Diesel Engine #60
Yingkui Gu and Shuyun Tang

15:00-15:20 A Three-layer Back-propagation Neural Network for Spam Detection Using Artificial Immune Concentration #194
Guangchen Ruan and Ying Tan.

15:20-15:40 Fragile Watermarking Schemes for Tamperproof Web Pages #190
Xiangyang Liu and Hongtao Lu

Session	Other Applications and Implementations (II)	Chair/Co-Chair	pending
Date/Time	September 27/14:00-15:40	Venue	Room C

14:00-14:20 Real-Time Short-term Traffic Flow Forecasting Based on Process Neural Network #377

	<i>Shan He, Cheng Hu, Guojie Song, Kunqing Xie and Yizhou Sun</i>		
14:20-14:40	Fuzzy Expert System to Estimate Ignition Timing for Tuning of Hydrogen Car	#388	
	<i>Tien Ho and Vishy Karri</i>		
14:40-15:00	Circuitry Analog and Synchronization of Hyperchaotic Neuron Model	#389	
	<i>Shukai Duan and Lidan Wang</i>		
15:00-15:20	A Genetic-neural Method of Optimizing Cut-off Grade and Grade of Crude Ore	#423	
	<i>Yong He, Sixin Xu, Kejun Zhu, Ling Tiu and Yue Li</i>		
15:20-15:40	A SPN-based Delay Analysis of LEO Satellite Networks	#464	
	<i>Zhiguo Hong, Yongbin Wang and Minyong Shi</i>		

Session	Other Applications and Chair/Co-Chair	pending
Date/Time	September 27/14:00-15:40	Room D
14:00-14:20	Research on the Factors of the Urban System Influenced Post-Development of the Olympics' Venues <i>Changzheng Liu, Qian Ding and Yao Sun</i>	#517
14:20-14:40	A Stock Portfolio Selection Method through Fuzzy Delphi <i>mehdi fasanghari and Gholam Ali Montazer</i>	#525
14:40-15:00	Coffee Break	
15:00-15:20	A Prediction Algorithm Based On Time Series Analysis <i>Jianping Qiu, Lichao Chen and Yingjun Zhang</i>	#550
15:20-15:40	An Unbiased LSSVM Model for Classification and Regression <i>Hongqiao Wang, Fuchun Sun, Yanning Cai, Linge Ding and Chen Ning</i>	#339

Special Session	Nature Inspired Methods of High-dimensional Discrete Data Analysis	Chair/Co-Chair	pending
Date/Time	September 27/14:00-15:40	Venue	Room E
14:00-14:20	Theoretical Analysis of a Rigid Coreset Minimum Enclosing Ball Algorithm for Kernel Regression Estimation <i>Xunkai Wei and Yinghong Li</i>		#416
14:20-14:40	Analysis of the Kurtosis-Sum Objective Function for ICA <i>Fei Ge and Jinwen Ma</i>		#398
14:40-15:00	Identification and Extraction of Evoked Potentials based on Borel Spectral Measure for Less Trial Mixtures <i>Daifeng Zha</i>		#12
15:00-15:20	FAST and Efficient Algorithms for Nonnegative Tucker Decomposition <i>Anh Huy Phan and Andrzej Cichocki</i>		#403
15:20-15:40	A Semi-blind Complex ICA Algorithm for Extracting a Desired		#275

Signal Based on Kurtosis Maximization
Junyu Chen and Qihua Lin

The Poster Paper Session

Date/Time	September 26, 2008 / 10:00-11:00	Chair	pending
Venue	Conference Hall	Co-chair	pending

Equalization for a Wireless ATM Channel with a Recurrent Neural Network Pruned by a Genetic Algorithm	#103
<i>Vu Thi Lan Huong, Dong-Chul Park, and Dong-Min Woo</i>	
RBF networks based approximate decoupling controller	#10
<i>Qian He and Xiaofang Yuan</i>	
Stability Criteria with Less Variables for Neural Networks With Time-Varying Delay	#213
<i>Tao Li</i>	
Searching for Interacting Features for Spam Filtering	#68
<i>Chuanliang Chen, Yunchao Gong, Rongfang Bie and Xiaozhi Gao</i>	
Function Approximation by Neural Networks	#214
<i>Fengjun Li</i>	
Adaptive Image Segmentation Using Modified Pulse Coupled Neural Network	#330
<i>Wei Cai and Gang Li</i>	
The Average Radius of Attraction Basin of Hopfield Neural Networks	#77
<i>Fan Zhang and Xinhong Zhang</i>	
Study of Punch Die Condition Discrimination Based on Wavelet Packet and Genetic Neural Network	#292
<i>Zhigao Luo, Xiang Wang, Ju Li, Binbin Fan and Xiaodong Guo</i>	
A Two-Step Blind Extraction Algorithm of Underdetermined Speech Mixtures	#25
<i>Ming Xiao and Shengli Xie</i>	
A Novel Pixel-level and Feature-level Combined Multisensor Image Fusion Scheme	#379
<i>Min Li, Gang Li and Wei Cai</i>	
Ethernet Network Traffic Prediction by Using Bilinear Recurrent Neural Network	#250
<i>Dong-Chul Park and Vu Thi Lan Huong</i>	